

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 05/06/04

Date Received: 04/01/04

Project: Metro Self Monitor, PO# M104008, F&BI 404013

Date Extracted: 04/29/04

Date Analyzed: 05/04/04

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M104008 404013-01	0.22	0.32	0.27	<0.05
Method Blank	<0.05	<0.05	<0.10	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 05/06/04

Date Received: 04/01/04

Project: Metro Self Monitor, PO# M104008, F&BI 404013

### QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 404280-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.35	0.37	6	0-20
Copper	mg/L (ppm)	0.47	0.49	4	0-20
Nickel	mg/L (ppm)	0.39	0.39	0	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 404280-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.35	90	80-120
Copper	mg/L (ppm)	2	0.47	98	80-120
Nickel	mg/L (ppm)	4	0.39	92	80-120
Zinc	mg/L (ppm)	2	<0.05	95	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Chromium	mg/L (ppm)	2	112	80-120
Copper	mg/L (ppm)	2	111	80-120
Nickel	mg/L (ppm)	4	108	80-120
Zinc	mg/L (ppm)	2	100	80-120

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

404013

## SAMPLE CHAIN OF CUSTODY

CM 04-01-04

BI,

AKC-000834

Send Report To

G. Thompson

Company

Alaskan Copper Works

Address

628 S. Harbor St

City, State, ZIP

Seattle WA 98134

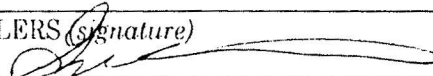
Phone #

206 382-8379

Fax #

206 382-4309

SAMPLERS (signature)



PROJECT NAME/NO.

Metro Self Monitor

PO #

M104008

REMARKS

Page # \_\_\_\_\_ of \_\_\_\_\_

## TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: \_\_\_\_\_

## SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CA, Cu, Ni, Pb				
M104008	01	4/1/04	12:45	H <sub>2</sub> O	1							<input checked="" type="checkbox"/>				

Friedman & Bruya, Inc.  
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

G. Thompson

Nhan Phan

COMPANY

ACW

FBI

DATE

4/1/04

TIME

1:35 PM

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

May 6, 2004

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

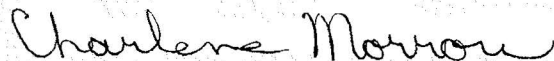
Dear Mr. Thompson:

Included are the results from the testing of material submitted on April 1, 2004 from the Metro Self Monitor, PO# M104008, F&BI 404013 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow  
Chemist

Enclosures  
ACU0506R.DOC



FRIEDMAN & BRUYA, INC.

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FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

May 6, 2004

DUPLICATE COPY

INVOICE # 04ACU0506-2

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M104008, F&BI 404013 - Results of testing  
requested by Gerry Thompson for material submitted on April 1, 2004.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due ..... \$ 80.00

FEDERAL TAX ID # (b) (6)